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**ABSTRACT:**

A low-pressure gas-discharge lamp is equipped with a gas-tight discharge vessel that contains a gas filling, with electrodes for maintaining a gas discharge in the discharge vessel, at least one of which electrodes is arranged inside the discharge vessel and includes a coil having a core made from a first refractory metallic material that has a first electronegativity, having a surrounding winding made from a second refractory metallic material that has a second electronegativity, having a coating of an electron-emitting material arranged between the core and the winding, and having current feeds, and with components for igniting and maintaining a gas discharge.